

I		II		This new version	
12		14		16	
Generation					
Name	Quickly Scheduler	DLD		On-line DLD	
System Type	Off-line	On-line, Real Time		On-line, Real Time	
Algorithm Type	Heuristic Algorithm	Multi-Priority Factor Multi-Dispatching Algorithm		Multi-Priority Factor Multi-Dispatching Algorithm	
Take Care MPS	No	Yes		Yes	
Take Care Lot Due Date	Yes	Yes		Yes	
Dispatching Subject	Production Lot	Production Lot		Production Lot and Engineering Lot	
Dispatching Subject Type	Wafer	Wafer		Wafer and PKG	
Dispatching Subject Stage	Test-INV/Sort1/Sort2	Sort1/Sort2		Test-INV/Sort1/Sort2/FT-BANK/F-Test/INKING	
Take Care Production	None	P/C		P/C, L/B for Wafer and L/B for PKG	
Production Apparatus Type	None	For single decide apparatus behavior		For multi-devices using the same apparatus behavior	
Scale in Taking Care Setup Time	Only take care the same PART ID to reduce setup time	Only take care the same PART ID to reduce setup time		Follow this sequence [Don't change test program] > [Don't change P/V]>{Don't change L/B}>[Don't change production type CP, FT] to	
Take Care Hardware and Software Special Constraint Information	None	Take care them as planning problem on exception rule system		Line PROMIS constraint function to take care them, and DLD exception rule system rule only for planning problem	
MES Environment	PROMIS	POSIDOM		PROMIS	
Permmance	Off-line system running 10 min, & manual tuning 4 hrs for all tester one day dispatching	Around 5 sec for one tester next dispatching lot		Around 7 sec for one tester next dispatching lot	
		FIG. 1			

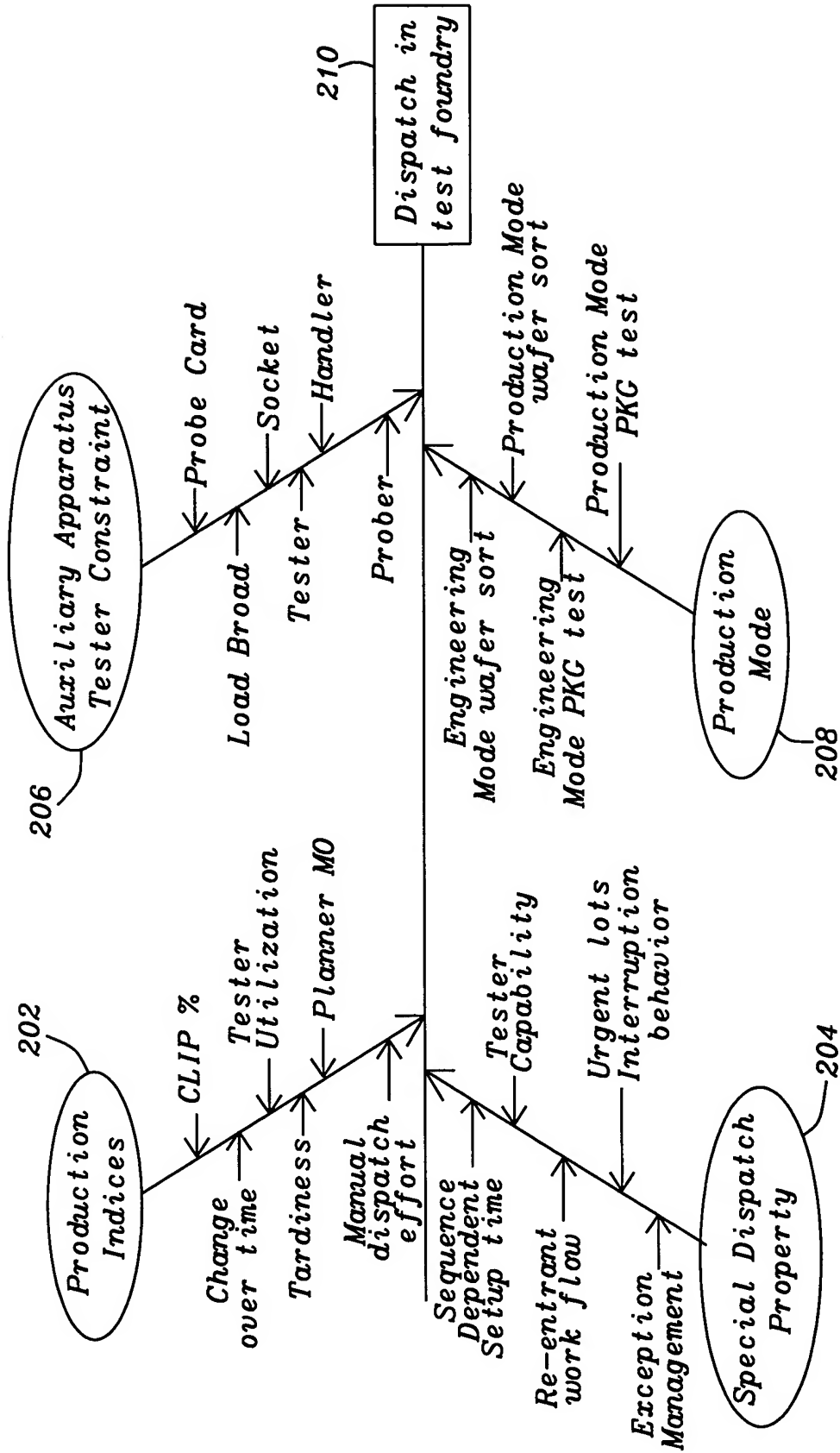


FIG. 2

308	304			Object
	Event Driven		Normal Lot and Eng. Lot	
302	SHR	HR	For Eng. Lot	314 Priority Calculation
	Lot Rank Priority Formula for Production Wafer/PKG			
300	Lot Rank		Exception Lot Dispatching Rule	312 Based on MPS Target to Reduce Setup Time
	Priority = $\sum (\text{Base} * \text{Weight})$		Exception Lot Dispatching Rule	
306	Two-Phased Dispatch	Lot Assignment		316
		SHR Dispatching Rule	HR Dispatching Rule	
310	Object	For SHR Dispatching	For HR Dispatching	318
		For Normal Lot & Eng. Lot Dispatching	For Normal Lot & Eng. Lot Dispatching	

FIG. 3

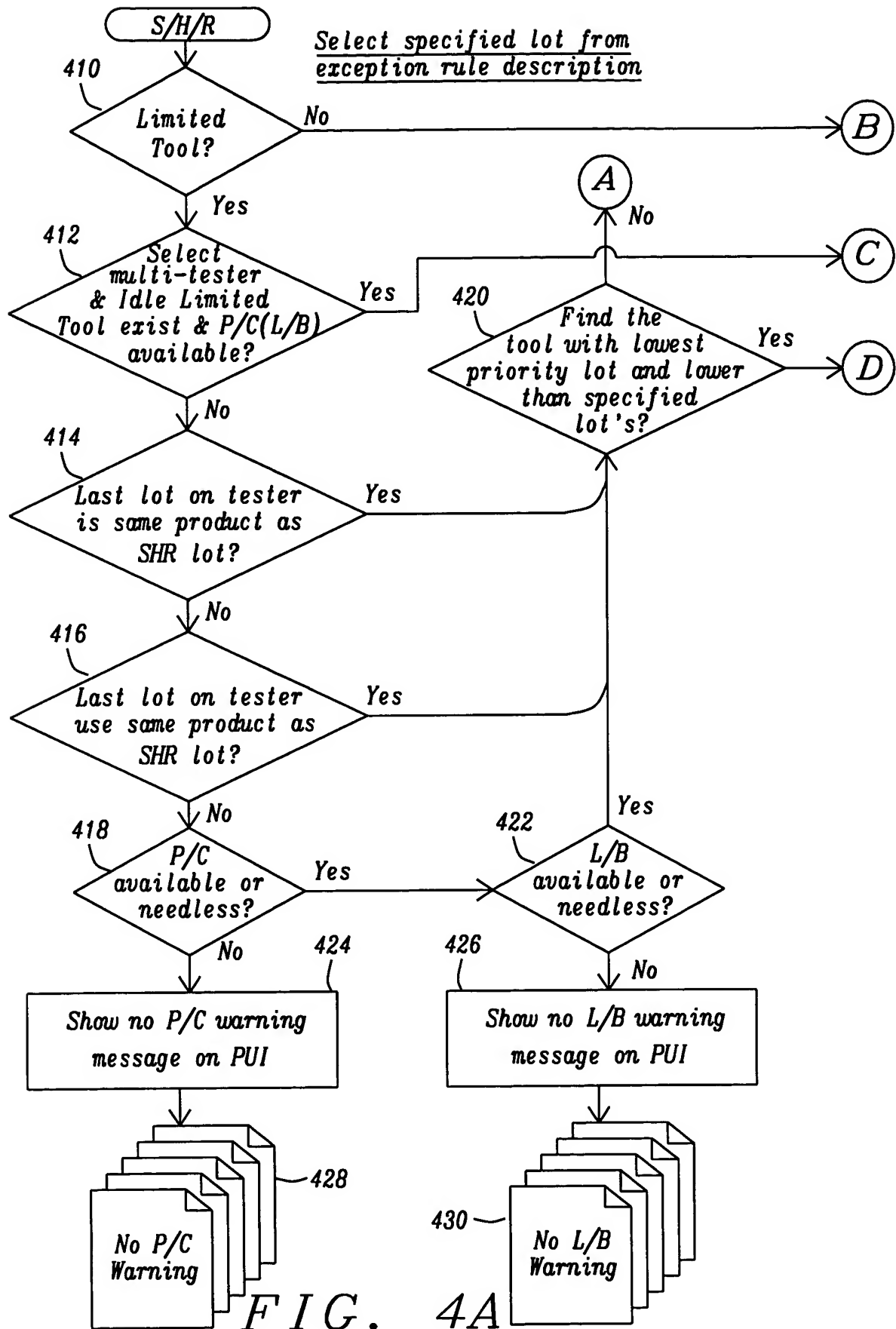


FIG. 4A

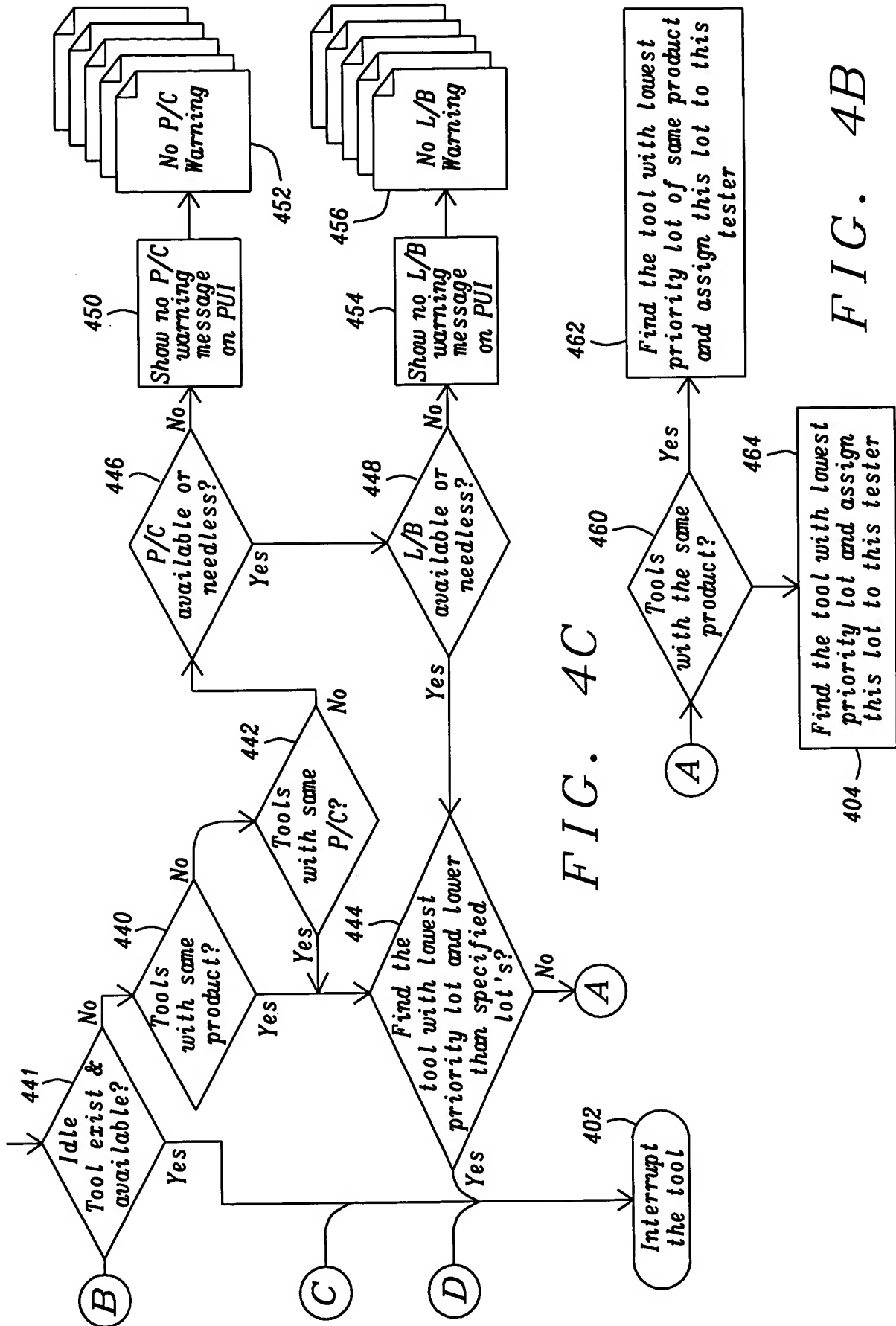


FIG. 4C

FIG. 4B

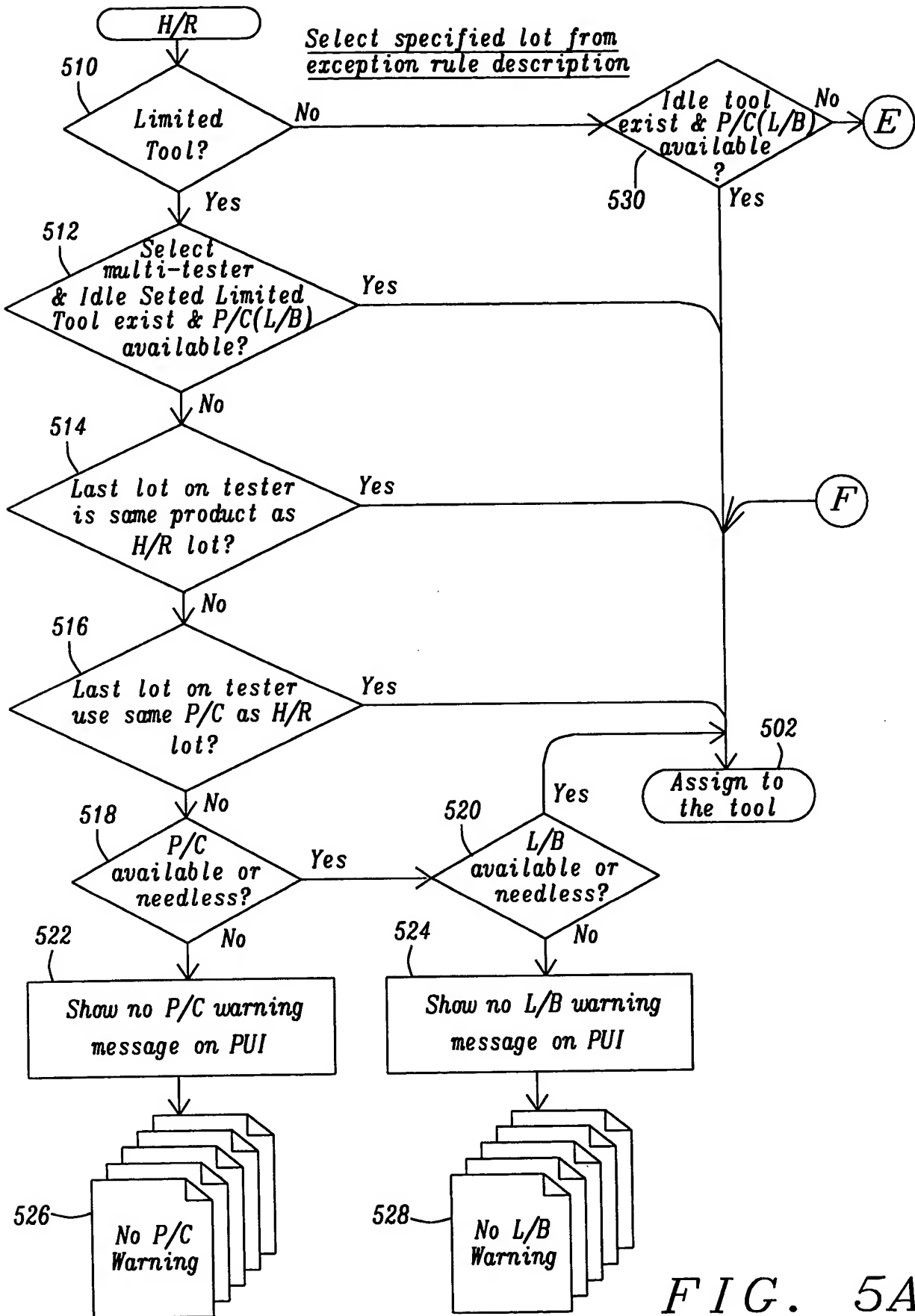


FIG. 5A

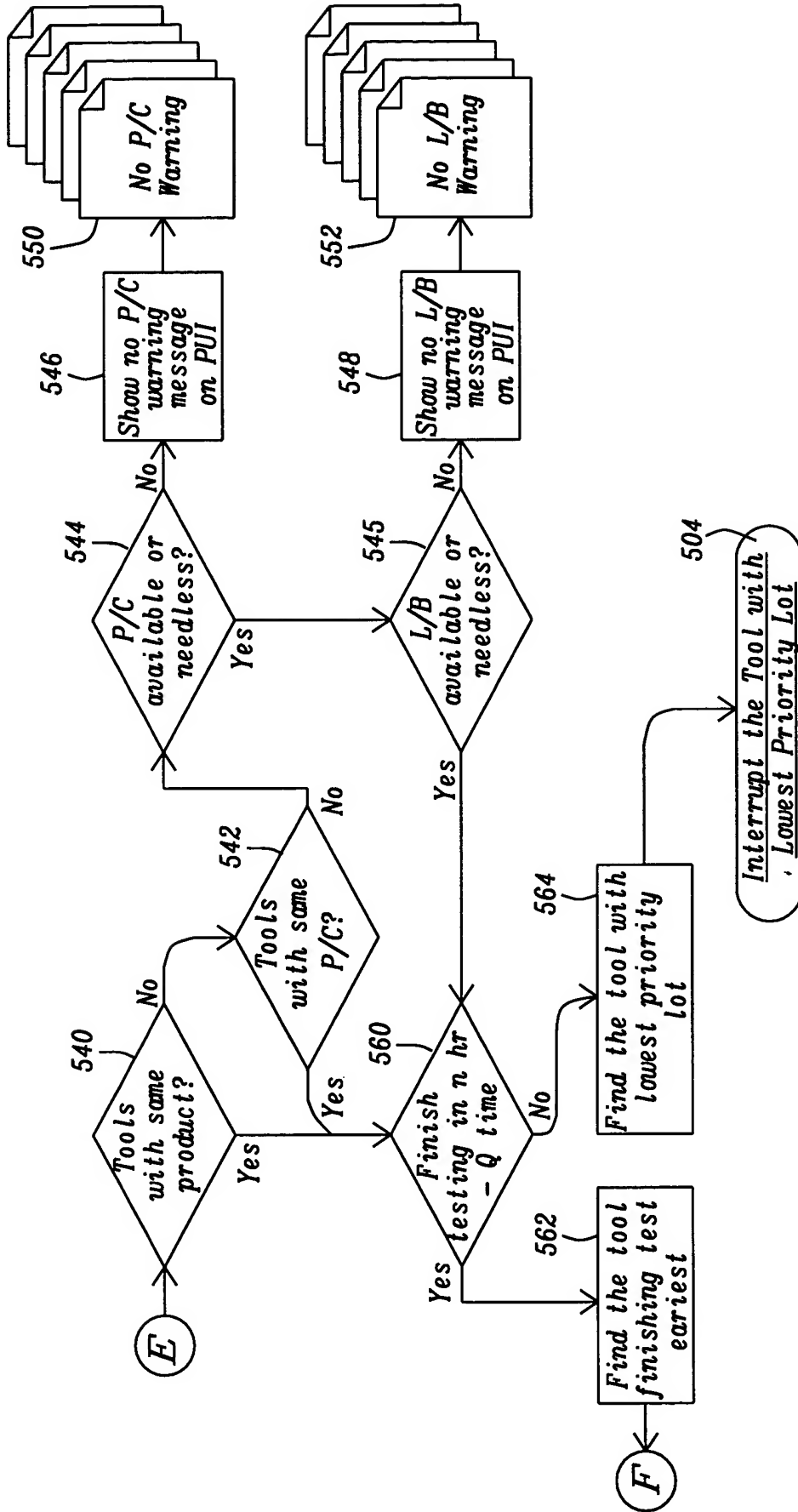


FIG. 5B

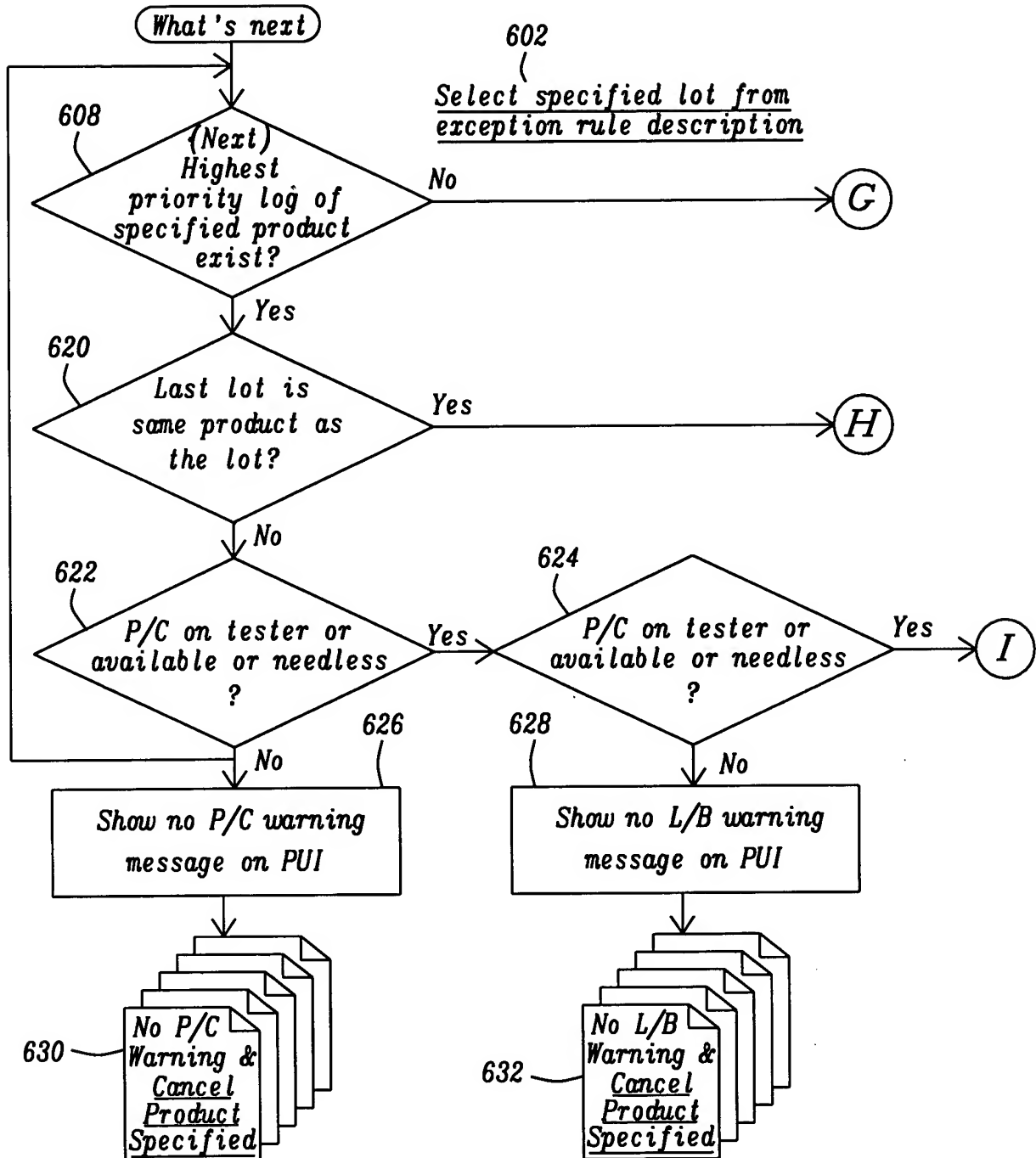


FIG. 6A

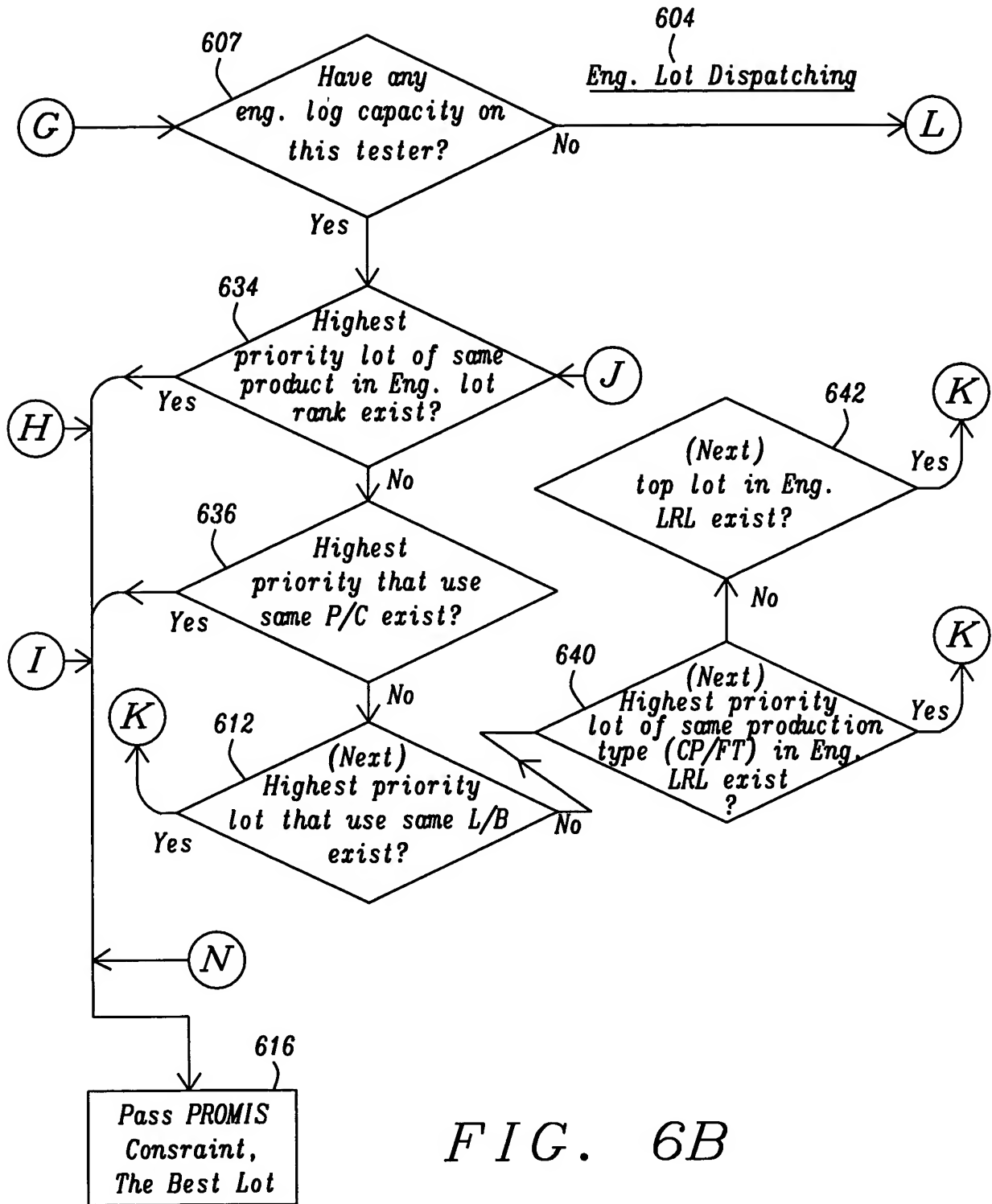


FIG. 6B

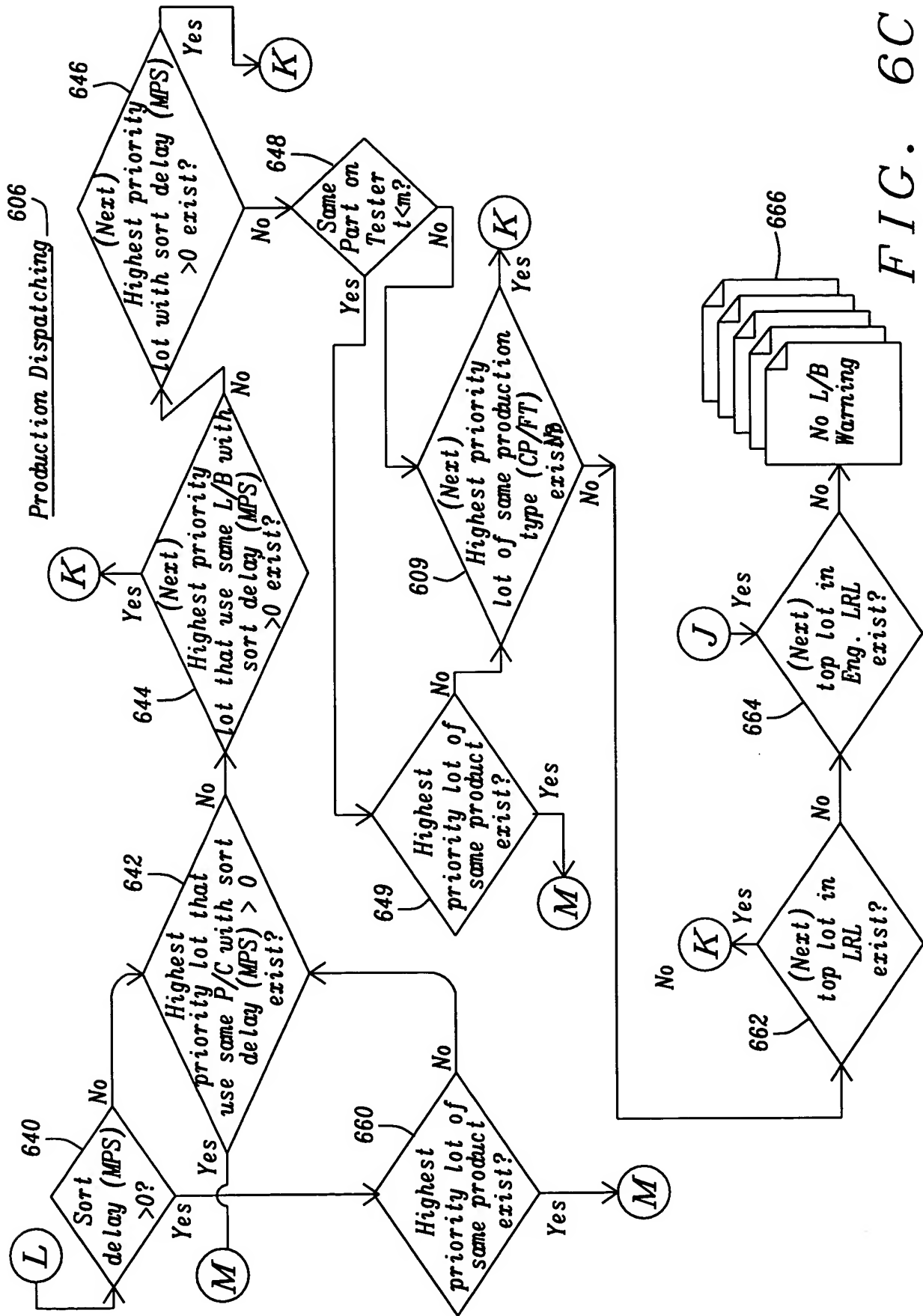


FIG. 6C

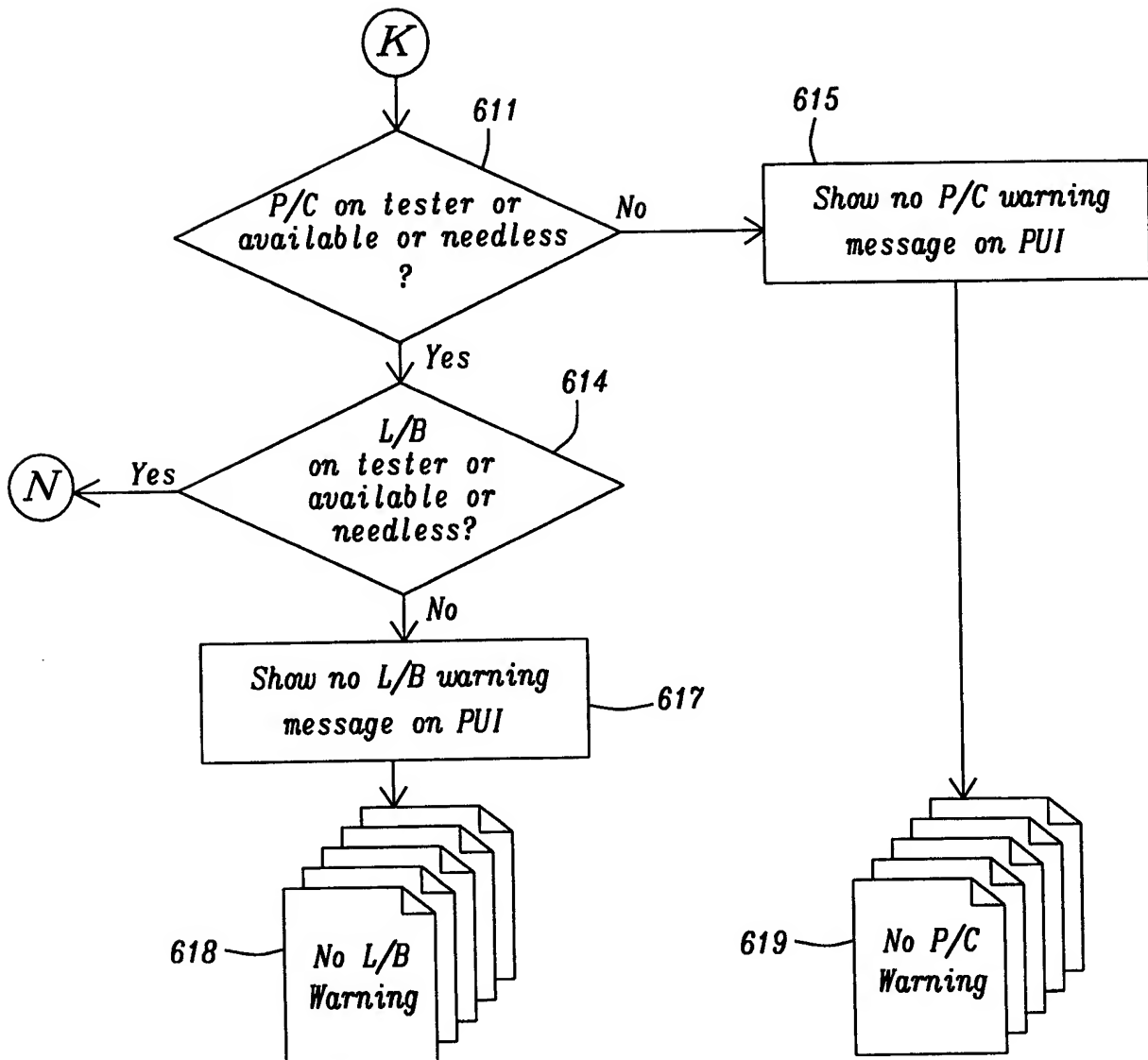


FIG. 6D